Express Mail No.: EV 258727910 US

Attorney Docket No.: 801204-0003

## RECOMBINANT MYCOBACTERIA OVEREXPRESSING D-ALANINE LIGASE AND USES THEREFORE

## ABSTRACT OF THE DISCLOSURE

Recombinant mycobacterial strains which overproduce essential biosynthetic enzymes of pathogenic mycobacteria are provided. These strains overproduce enzymes involved in the synthesis and incorporation of D-alanine into mycobacterial peptidoglycan, the backbone of the mycobacterial cell wall. These overproducing strains may be used as reference strains in *in vitro* screening methods to identify antimycobacterial agents.